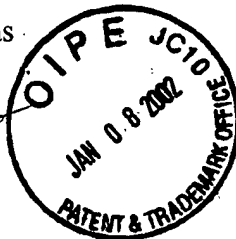


I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:
Assistant Commissioner for Patents, Washington, D.C. 20231 on 14 DECEMBER 2001



Jeff Lloyd
Jeff Lloyd, Patent Attorney

Patent Application
Docket No. UGR-100X
Serial No. 09/629,596

RECEIVED
JAN 14 2001
TECH CENTER 1600/2900

pre 10/28
50998
1-26-02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : P. Ponnaluri
Art Unit : 1627
Applicants : Michael J. Adang, Laura M. Kasman
Serial No. : 09/629,596
Filed : July 31, 2000
For : Phage Display of a Biologically Active *Bacillus thuringiensis* Toxin

Assistant Commissioner for Patents
Washington, D.C. 20231

SUBMISSION OF SEQUENCE LISTING UNDER 1.821

Sir:

Transmitted herewith is a *corrected* sequence listing under 37 CFR 1.821 through 1.825 for the above-identified patent application. A Communication from the Examiner and a Notice to Comply with Sequence Rules 37 CFR 1.821-1.825 were received from the Patent and Trademark Office, and copies of the Notices are enclosed herewith.

The sequence is submitted in computer readable format and on paper. I hereby certify that the paper and computer readable copies are the same and that no new material is added by this submission.

Respectfully submitted,

Jeff Lloyd
Jeff Lloyd
Patent Attorney
Registration No. 35,589

Phone No.: 407-426-7500
Address: 1000 Legion Place, Suite 1750
Orlando, FL 32801

JL/gm

Attachments: Sequence listing on paper; computer readable format containing the same information; copies of Notices from PTO



UNITED STATES PATENT AND TRADEMARK OFFICE

COPY

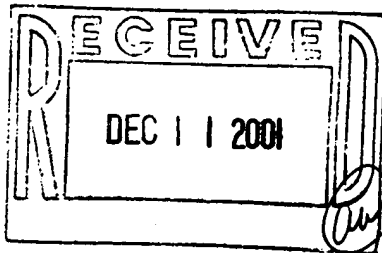
UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/629,596	07/31/2000	Michael J. Adang	UGR-100X	4280

7590

12/07/2001

Jeff Lloyd
2421 NW 41st Street
Suite A1
Gainesville, FL 32606-6669



EXAMINER	
PONNALURI, PADMASHRI	
ART UNIT	PAPER NUMBER

1627

DATE MAILED: 12/07/2001

Please find below and/or attached an Office communication concerning this application or proceeding.

RECEIVED
JAN 14 2001
TECH CENTER 1600/2900



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
09/629,596	7/31/00		

EXAMINER	
P. Ponnaluri	
ART UNIT	PAPER NUMBER
1627	9

DATE MAILED:

Please find below a communication from the EXAMINER in charge of this application
Commissioner of Patents

The communication filed on 10/21/00 is not fully responsive to the communication mailed 9/24/01. See the attached Raw Sequence Listing Error Report.

Since the response appears to be bona fide, but through an apparent oversight or inadvertence failed to provide a complete response, applicant is given **ONE (1) MONTH or THIRTY (30) DAYS** from the mailing date of this notice, whichever is longer, within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).

Any inquiry concerning this communication should be directed to P. Ponnaluri whose telephone number is (703) 305-3884. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jyothsna Venkat, can be reached at (703)308-2439. The fax number for this group is (703)305-3014.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703)308-0196.

P. Ponnaluri
Patent Examiner
Technology center 1600
Art Unit 1627
5 December 2001


PADMASHRI PONNALURI
PRIMARY EXAMINER

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☒ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other:

Applicant Must Provide:

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

PatentIn Software Program Support (SIRA)

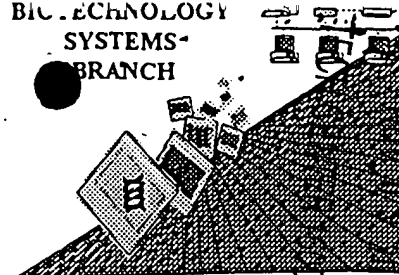
Technical Assistance.....703-287-0200

To Purchase PatentIn Software.....703-306-2600

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

RAW SEQUENCE LISTING
ERROR REPORT

1627



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NOV 09 2001

TECH CENTER 1600/2900

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/629596

Source: AU 1600

Date Processed by STIC: 10/21/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/629569

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY P

- 1 Wrapped Nucleics
 Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length.
Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences:
- 8 Skipped Sequences
 (NEW RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
 (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents
- 10 Invalid <213>
 Response
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or Artificial Sequence
- 11 Use of <220>
Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/629,596

DATE: 10/21/2001

TIME: 13:52:06

Input Set : A: GR-100X-seq.txt

Output Set: N: RF3\10192001\I629596.raw

3 <110> APPLICANT: Adang, Michael
 4 Kasman, Laura
 6 <120> TITLE OF INVENTION: Phage Display of a Biologically Active Bacillus
 thuringiensis Toxin

8 <130> FILE REFERENCE: UGR-100X

10 <140> CURRENT APPLICATION NUMBER: 09/629,596

11 <141> CURRENT FILING DATE: 2000-07-31

13 <150> PRIOR APPLICATION NUMBER: US 60/146,646

14 <151> PRIOR FILING DATE: 1999-07-30

16 <160> NUMBER OF SEQ ID NOS: 6

18 <170> SOFTWARE: PatentIn version 3.0

20 <210> SEQ ID NO: 1

21 <211> LENGTH: 50

22 <212> TYPE: DNA

23 <213> ORGANISM: synthetic primer

25 <400> SEQUENCE: 1

26 gtgagtgtggt ggccgacggg gccgctggaa tggacaacaa tcccaacatc

29 <210> SEQ ID NO: 2

30 <211> LENGTH: 54

31 <212> TYPE: DNA

32 <213> ORGANISM: synthetic primer

34 <400> SEQUENCE: 2

35 tgagtgtgtc ggccccagag gccctgcagc tccctcgagc gttgcagtaa cggg

38 <210> SEQ ID NO: 3

39 <211> LENGTH: 20

40 <212> TYPE: DNA

41 <213> ORGANISM: synthetic primer

43 <400> SEQUENCE: 3

44 gaggctcgaa aggtaccgtc

47 <210> SEQ ID NO: 4

48 <211> LENGTH: 20

49 <212> TYPE: DNA

50 <213> ORGANISM: synthetic primer

52 <400> SEQUENCE: 4

53 gacggtacct ttcgaggctc

56 <210> SEQ ID NO: 5

57 <211> LENGTH: 90

58 <212> TYPE: DNA

59 <213> ORGANISM: synthetic primer

61 <400> SEQUENCE: 5

62 ctgctcgcc catatgcggc cgcaggtctc ctctcttag cagcacaacc agcaatggcc

64 atggataaca atccgaacat caatgaatgc

67 <210> SEQ ID NO: 6

68 <211> LENGTH: 50

69 <212> TYPE: DNA

70 <213> ORGANISM: synthetic primer

72 <400> SEQUENCE: 6

73 atccgataaa tagctagcta aattggacac ttgatcaata tgataatccg

Does Not Comply
 Corrected Diskette Needed

Errored: Invalid 213 response Acceptable
 213 responses are only "Artificial Sequence"

"Unknown" or the name of some specific species

Errored: Invalid 213 responses

Errored: Invalid 213 responses

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/629,596

DATE: /21/2001
TIME: 13:52:07

Input Set : A:\UGR-100X-seq.txt

Output Set: N:\CRF3\10192001\I629596.raw